



CITY OF WEST LINN

2013 Library Parking Expansion

PW-13-08

BID DOCUMENTS



CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
FAX: (503) 650-9041



CONTRACTOR

NAME: -N/A
ADDRESS: -N/A
PHONE: -N/A
FAX: -N/A

Library Parking Expansion

Cover Sheet

PROJECT NO.: PW-13-08
DESIGNED BY: KLE
DRAWN BY: KLE
CHECKED BY: L.CALVERT
DATE: JULY 1, 2013

REVISION

DATE	DESCRIPTION

COVER SHEET

CS

GENERAL NOTES

- All construction shall conform to the latest City of West Linn Public Works Standards and manufacturer's specifications.
- This set of plans has been reviewed for compliance with City of West Linn requirements prior to issuance for construction. However such review shall not prevent the City Engineer from requiring correction of errors or omissions in plans found to be in violation of any law or ordinance.
- The City Engineer does not warrant any quantities shown on these plans.
- The Engineering Division, Inspection Section shall be notified twenty-four (24) hours prior to any construction work by telephone at 503-722-5501. Any work concealed without inspection shall be subject to removal and replacement at the Contractor's expense.
- Any approved set of plans must be available on the job site at all times. The contractor's representative (capable of communicating with the City's representatives) shall be on the job at all times the work is being pursued.
- The Contractor is responsible to provide emergency telephone numbers to the City of West Linn at time of receiving Project to Proceed Notice and have personnel available 24-hours a day to respond to emergencies. If the City is required to respond and make emergency repairs on behalf of the Contractor, the Contractor is responsible to reimburse the City for all costs incurred.
- It is the Contractor's sole responsibility to verify the presence and location of all existing utilities that may interfere with this construction, whether or not said utilities are shown on the construction plans for this project and to adequately protect and maintain any such utilities.
- Contractor shall submit a detail construction schedule to the City Engineering Division for review and acceptance prior to construction.

UTILITY PROVIDERS

WATER:	CITY OF WEST LINN	PUBLIC WORKS	503-656-6081
STORM:	CITY OF WEST LINN	PUBLIC WORKS	503-656-6081
SEWER:	CITY OF WEST LINN	PUBLIC WORKS	503-656-6081
POWER:	PGE	BOBBIE DANIELSON	503-742-8483
STREET LIGHTS:	PGE	LORI SWANSON	503-742-8322
GAS:	NW NATURAL	DAVID BENTON	503-226-4211x2357
CATV:	COMCAST	BOB BOB MILLAR	360-828-3559
PHONE:	QWEST	KENNETH SCIULLI	503-242-0304

TRAFFIC CONTROL GENERAL NOTES

- No road closure shall be allowed without City Engineer's prior approval as delegated by the City Manager.
- Traffic control shall conform to the ODOT Temporary Traffic Control Handbook and MUTCD. The Contractor shall submit a Traffic Control Plan to the City of West Linn Engineering Division for review and acceptance a minimum of 48-hours prior to construction. A copy of the accepted Traffic Control Plan must remain on the job site at all times.

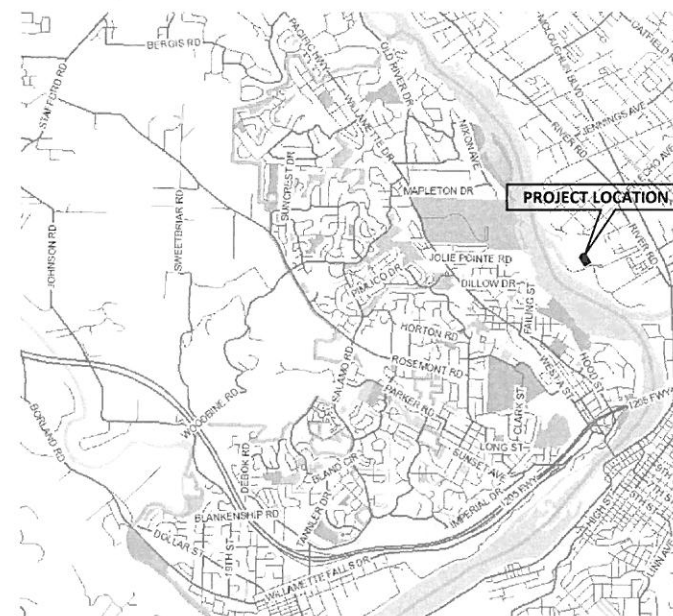
WORKING HOURS

7:00 AM - 7:00 PM Monday - Friday
9:00 AM - 5:00 PM Saturday - Sundays & Holidays

CONSTRUCTION NOTES

Contractor is responsible for all surveying and construction staking for the project.

Vinicity Map



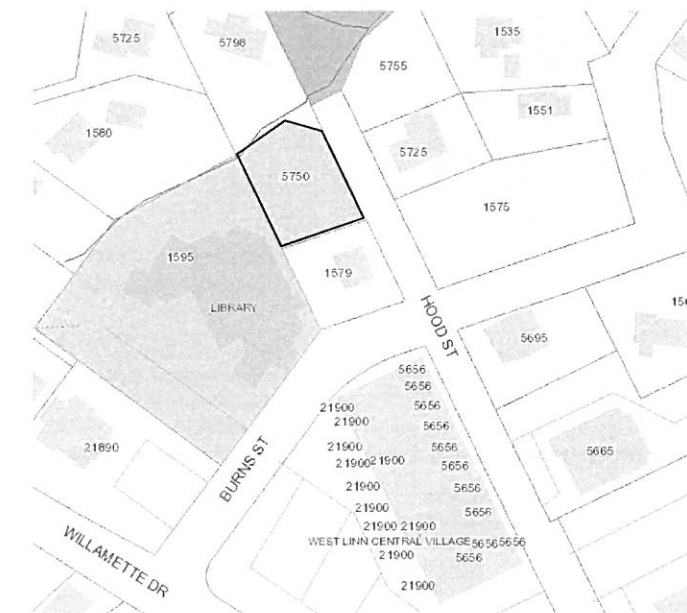
GENERAL NOTE

All work within the public right-of-way shall conform to the current City of West Public Works Design Standards, Standard Construction Specifications, and Standard Drawings.

GIS BASE MAP INFORMATION

Data Source: West Linn GIS
OGIC Disclaimer: This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

Site Location



ATTENTION

Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is (503) 232-1987).

BEING A PORTION OF PARCEL 2
PARTITION PLAT NO. 1993-61
IN THE NW 1/4 SEC. 30, T.2S., R.2E., W.M.
CITY OF WEST LINN
CLACKAMAS COUNTY, OREGON
JUNE 19, 2007 MAP 2 2E 30BD



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LEGEND:

- FOUND MONUMENT AS NOTED
- I.R. IRON ROD
- I.P. IRON PIPE
- W/YPC WITH YELLOW PLASTIC CAP
- WM WATER METER
- UUT— MULTIPLE UNDERGROUND UTILITIES — TV, QLN, PGE
- W — WATER LINE
- G — NATURAL GAS LINE
- MB MAILBOX
- X0.0GRND SPOT ELEVATION GROUND
- X0.00EP SPOT ELEVATION EDGE OF PAVEMENT
- X0.00EC SPOT ELEVATION EDGE OF CONCRETE
- X0.00CL SPOT ELEVATION CENTERLINE ROAD
- X0.00TC SPOT ELEVATION TOP OF CURB
- X0.00FL SPOT ELEVATION FLOWLINE

NOTES:

- ELEVATIONS ON NGVD 1929 DATUM, DETERMINED USING GPS.
- THE BOUNDARIES AS SHOWN ON THIS MAP ARE APPROXIMATE ONLY. THIS MAP DOES NOT REPRESENT A SURVEY TO BE RECORDED, BUT WAS DONE FOR SITE/TOPO INFORMATION ONLY.
- THIS SURVEY IS MADE FOR THE ORIGINAL PURCHASER OF THE SURVEY ONLY. ANDY PARIS & ASSOCIATES, INC. ASSUMES NO LIABILITY FOR INFORMATION SHOWN HEREON TO ANY OTHER INSTITUTIONS OR SUBSEQUENT PURCHASERS OF THE PROPERTY.
- SURVEY IS VALID ONLY IF PRINT HAS SEAL AND SIGNATURE OF SURVEYOR.
- NO ATTEMPT HAS BEEN MADE AS A PART OF THIS SURVEY TO OBTAIN OR SHOW DATA CONCERNING EXISTENCE, SIZE, DEPTH, CONDITION, CAPACITY, OR LOCATION OF ANY UTILITY OR MUNICIPAL/PUBLIC SERVICE FACILITY. FOR INFORMATION REGARDING THESE UTILITIES OR FACILITIES, PLEASE CONTACT THE APPROPRIATE AGENCIES.
- THE LOCATION AND OR EXISTENCE OF UTILITY SERVICE LINES TO THE PROPERTY SURVEYED ARE UNKNOWN AND ARE NOT SHOWN.
- SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SURVEY. NO STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONTAINERS OR FACILITIES THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS TRACT.
- THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY SURVEYOR. THERE MAY EXIST EASEMENTS, CONDITIONS, OR RESTRICTIONS THAT COULD AFFECT THE TITLE OF THIS PROPERTY. NO ATTEMPT HAS BEEN MADE IN THIS SURVEY TO SHOW SUCH MATTERS THAT MAY AFFECT TITLE.
- LOCATION OF MADDAX CREEK SHOWN ON THIS PLAN IS NOT PART OF THE SURVEY WORKS DONE BY ANDY PARIS AND ASSOCIATES, INC. MADDAX CREEK LOCATION IS DRAWN IN BY CITY OF WEST LINN ENGINEERING DIVISION BASED ON GIS INFORMATION.

Library Parking Expansion

Existing Conditions Plan

PROJECT NO.: PW-13-08
DESIGNED BY: KLE
DRAWN BY: KLE
CHECKED BY: LCAVERT
DATE: JULY 1, 2013

REVISION	
DATE	DESCRIPTION

EXISTING CONDITIONS
C1.1

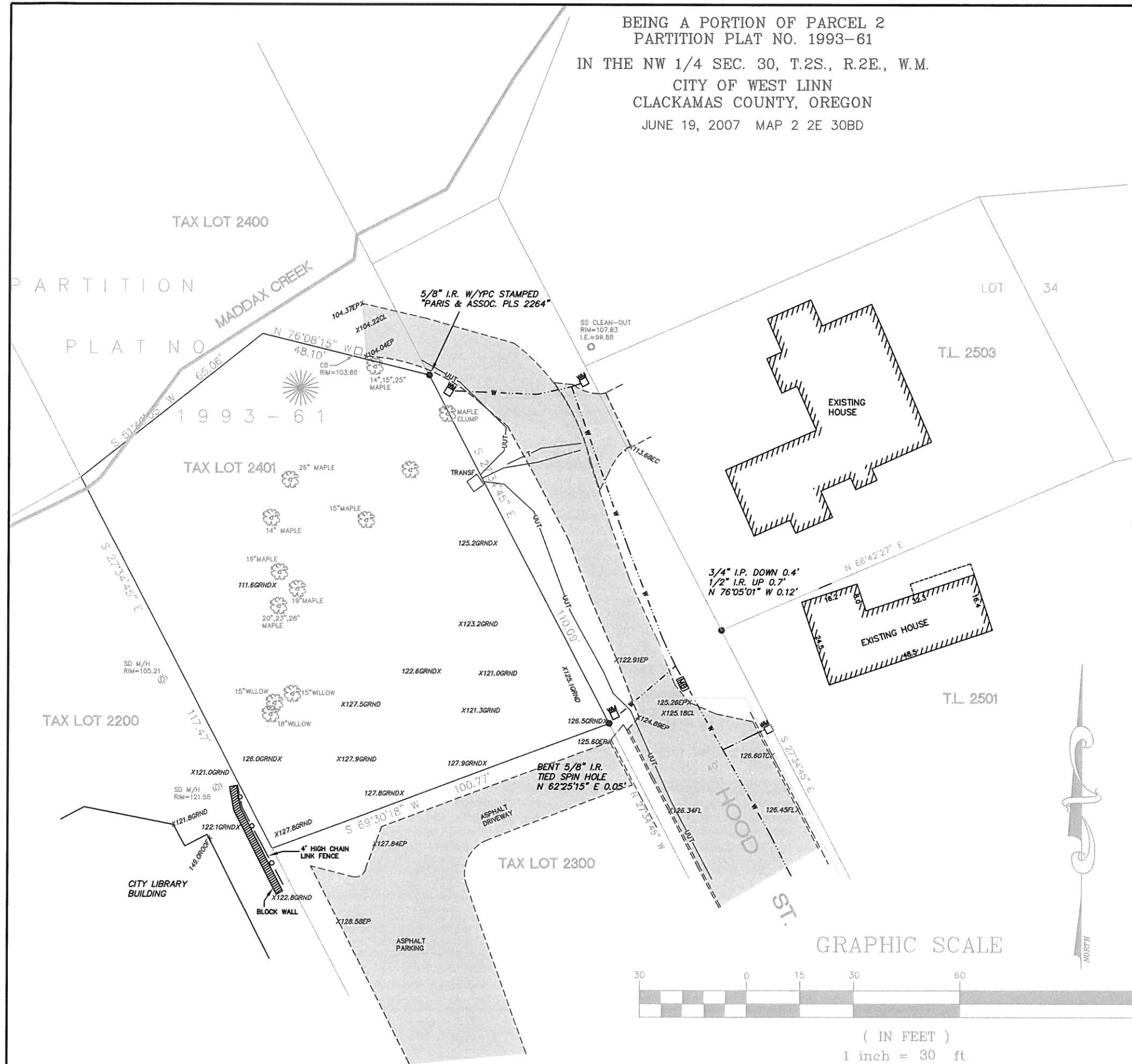
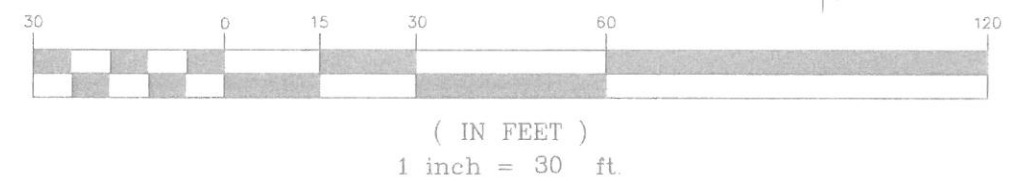
REGISTERED
PROFESSIONAL
LAND SURVEYOR

OREGON
JANUARY 15, 1967
HAROLD P. SALO
2264
EXPIRES: JUNE 30, 2008

SURVEYED BY:
ANDY PARIS AND ASSOCIATES, INC.
16057 BOONES FERRY ROAD
LAKE OSWEGO, OREGON 97035
PH: 503-636-3341

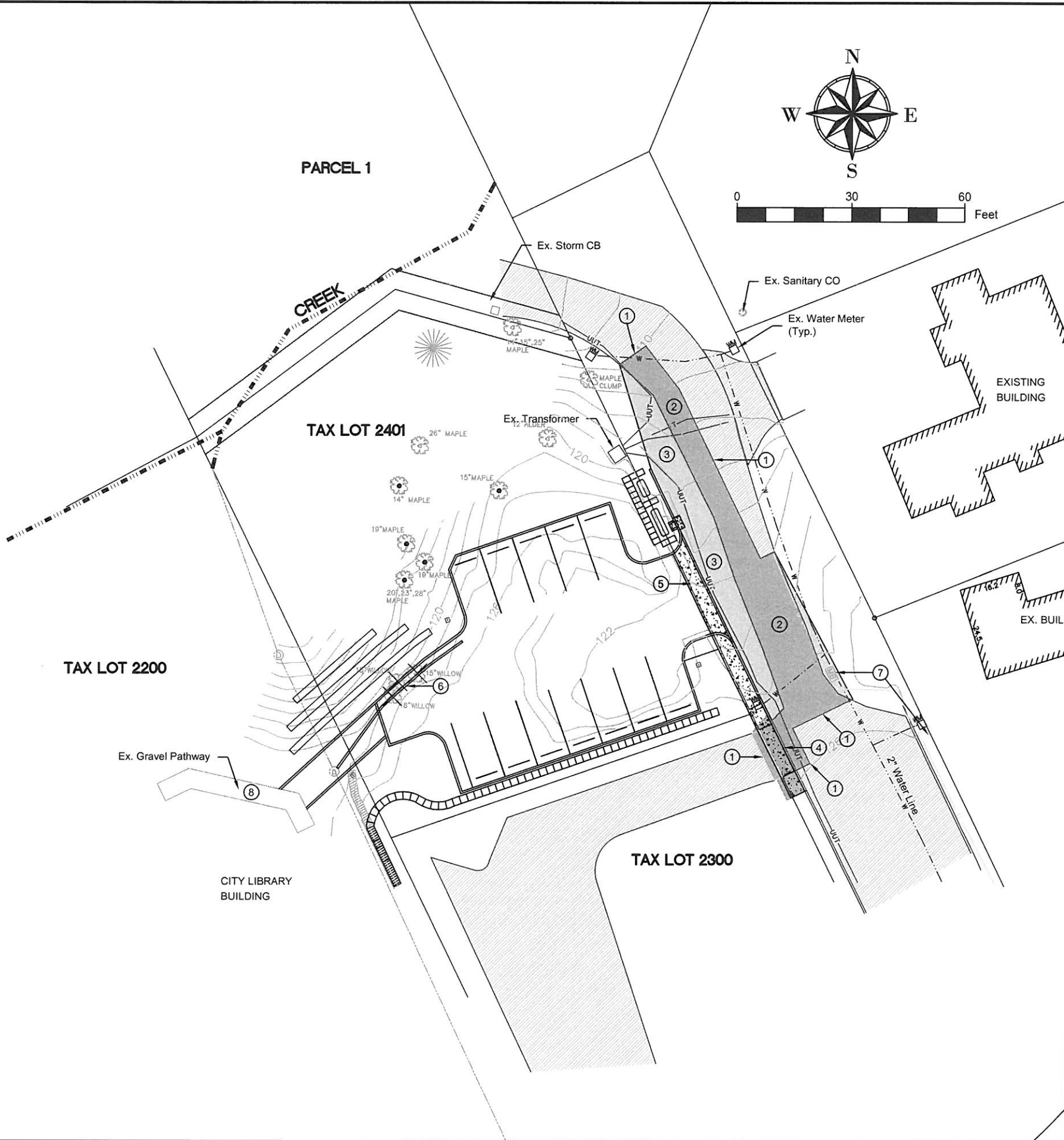
PROJECT: 07005
DRAWING: 07005TP1.DWG

GRAPHIC SCALE



DEMOLITION NOTES

- ① SAW CUT LINE.
LENGTH = 110 LF.
- ② EXISTING AC PAVEMENT TO BE REMOVED.
EXCAVATE TO DEPTH OF 16". PREPARE
SUBGRADE FOR PAVEMENT IMPROVEMENT.
FOR DETAIL SEE SHEET C3.2 AND C3.3.
- AREA = 1100 SQ.FT. = 125 SQ.YD.
- ③ REMOVED EXISTING SURFACE
EXCAVATE TO DEPTH OF 16". PREPARE
SUBGRADE FOR PAVEMENT IMPROVEMENT.
FOR DETAIL SEE SHEET C3.2 AND C3.3.
- AREA = 650 SQ.FT. = 75 SQ.YD.
- ④ REMOVE EXISTING AC DRIVEWAY APPROACH.
EXCAVATE TO DEPTH OF 8". PREPARE
SUBGRADE FOR CONCRETE DRIVEWAY
APPROACH AND SIDEWALK.
FOR DETAIL SEE SHEET C3.2 AND C3.3.
- AREA = 110 SQ.FT. = 15 SQ.YD.
- ⑤ REMOVE EXISTING SURFACE.
EXCAVATE TO DEPTH OF 8". PREPARE
SUBGRADE FOR CONCRETE DRIVEWAY
APPROACH AND SIDEWALK.
FOR DETAIL SEE SHEET C3.2 AND C3.3.
- AREA = 110 SQ.FT. = 15 SQ.YD.
- ⑥ GROUP OF TREES TO BE REMOVED.
- ⑦ EX. MAIL BOX TO BE RELOCATED NEXT.
- ⑧ EX. GRAVEL PATH TO BE REMOVED AND
REPLACE WITH PAVERS.
- AREA = 220 SQ.FT. = 30 SQ.YD.



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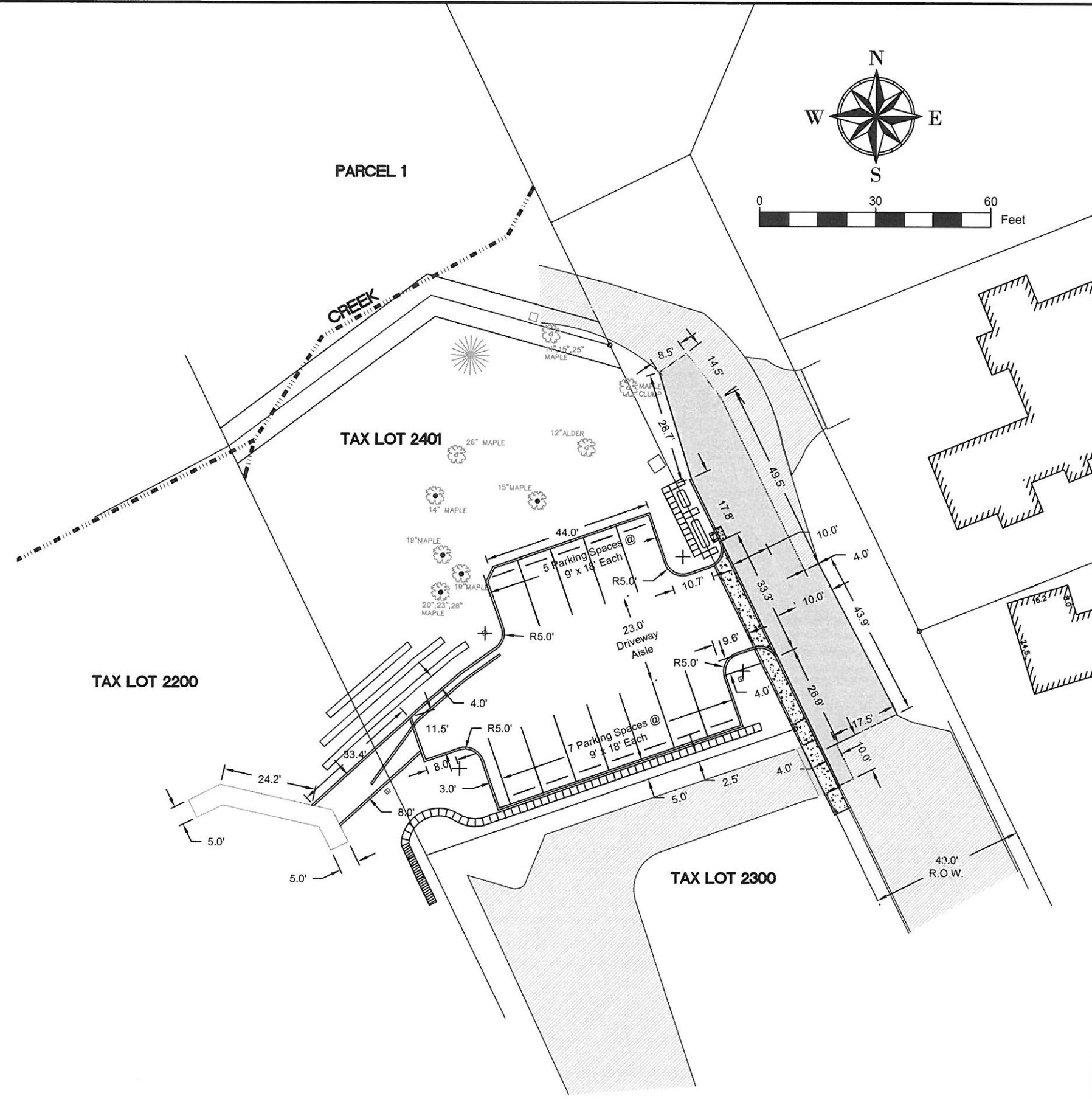
CONTRACTOR
NAME: -N/A
ADDRESS: -N/A
PHONE: -N/A
FAX: -N/A

Library Parking Expansion
Demolition Plan

PROJECT NO.: PW-13-08
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REVISION	
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DEMOLITION
C2.1



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Library Parking Expansion

Dimensioning Plan

PROJECT NO.: PW-13-08
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 DRAWN BY: KLE
 CHECKED BY: LCALVERT
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REVISION	
DATE	DESCRIPTION

DIMENSIONING
C3.1

CONSTRUCTION NOTES

- 1

CONSTRUCT PAVEMENT IMPROVEMENT WITH ROCK BASE. FOR INFORMATION SEE STREET CROSS SECTION DETAIL ON SHEET C3.3.
- 2

CONSTRUCT STANDARD STRAIGHT CURB. SEE WL-501 FOR DETAIL ON SHEET C3.3.
- 3

CONSTRUCT COMMERCIAL DRIVEWAY APPROACH. SEE WL-504B FOR DETAIL ON SHEET C3.3. RECONSTRUCTION ASPHALT DRIVEWAY AS NEEDED.
- 4

CONSTRUCT COMMERCIAL DRIVEWAY APPROACH. SEE WL-504B FOR DETAIL ON SHEET C3.3.
- 5

CONSTRUCT 4' CURB TIGHT CONCRETE SIDEWALK. SEE WL-508 FOR DETAIL ON SHEET C3.3. MATCH EX. SIDEWALK WHERE NEEDED. SIDEWALK INCLUDING DRIVEWAY APPROACH WINGS SHALL BE ADA ACCESSIBLE.
- 6

CONSTRUCT PARKING LOT WITH PERMEABLE PAVERS. SEE PERMEABLE PAVER CROSS SECTION DETAIL. FOR INFORMATION SEE PHYSICAL DIMENSION DETAIL ON SHEET C3.3.
- 7

CONSTRUCT 8' PATH WITH PERMEABLE PAVERS. SEE PERMEABLE PAVER CROSS SECTION DETAIL. FOR INFORMATION SEE PHYSICAL DIMENSION DETAIL ON SHEET C3.3.
- 8

REMOVE EXISTING GRAVEL PATH AND REPLACE WITH PERMEABLE PAVERS WITH BEDDING AND APPROVED EDGING. FOR INFORMATION SEE PHYSICAL DIMENSION ON SHEET C3.3.
- 9

CONSTRUCT KEYSTONE WALL. STANDARD 21 UNIT - TRIPLANE FACE OR EQUALLY APPROVED. SEE GRADING PLAN SHEET C4.1 FOR APPROPRIATE ELEVATIONS.
- 10

CONSTRUCT RAIN GARDEN, INSTALL PLANTS, AND CURB CUT. FOR DETAIL SEE SHEET C3.3 AND C4.3.
- 11

PRESERVE EX. WATER METER. RESET WATER METER BEHIND CURB IN ACCORDANCE WITH WL-402. SEE DETAIL ON SHEET C3.3.
- 12

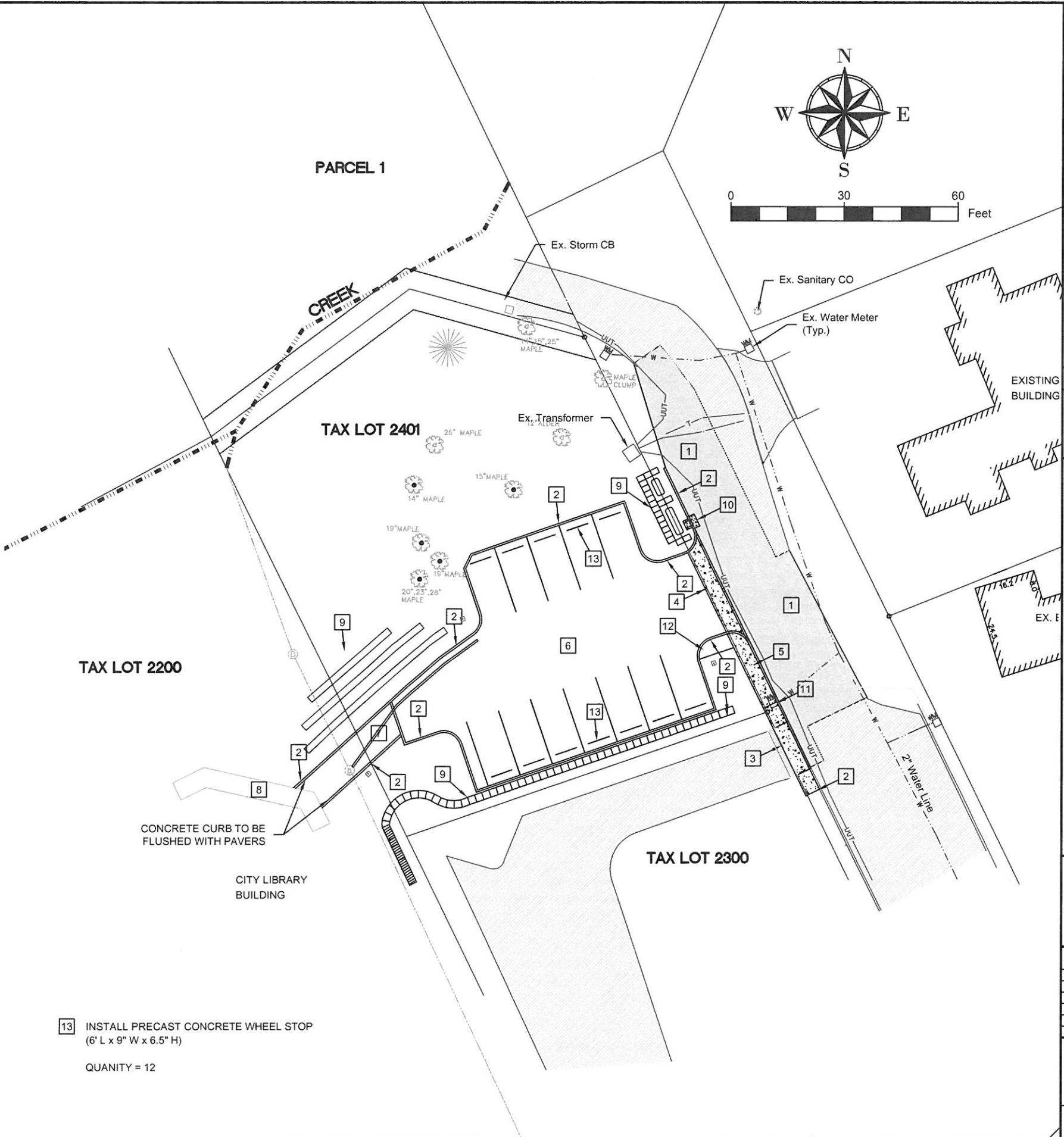
CONSTRUCT 4' PATH WITH PERMEABLE PAVERS WITH BEDDING AND APPROVED EDGING. SEE PERMEABLE PAVER CROSS SECTION DETAIL AND FOR INFORMATION SEE PHYSICAL DIMENSION DETAIL ON SHEET C3.3.
- 13

INSTALL PRECAST CONCRETE WHEEL STOP (6' L x 9" W x 6.5" H)
- AREA = 1870 SFT

VOLUME = 1870 CFT = 70 CYD
- LENGTH = 360 LF
- LENGTH = 15 LF

AREA = 60 SFT
- LENGTH = 33 LF

AREA = 132 SFT
- AREA = 125 SFT
- AREA = 3950 SFT
- AREA = 260 SFT
- AREA = 220 SFT
- AREA = 610 SFT
- FOR DETAIL SEE SHEET C3.3 AND C4.3.
- QUANTITY = 12
- AREA = 40 SFT



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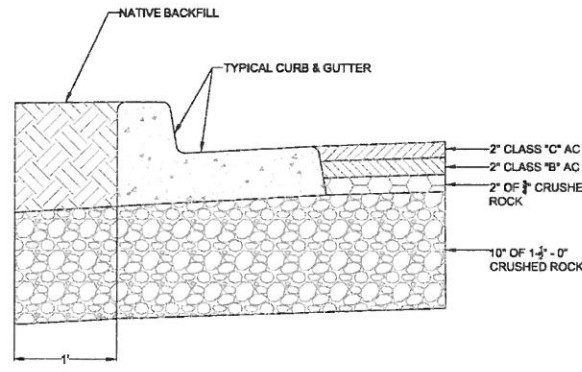
Library Parking Expansion
Site Plan

PROJECT NO.: PW-13-08
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DATE: JULY 1, 2013

REVISION	
DATE	DESCRIPTION

SITE
C3.2

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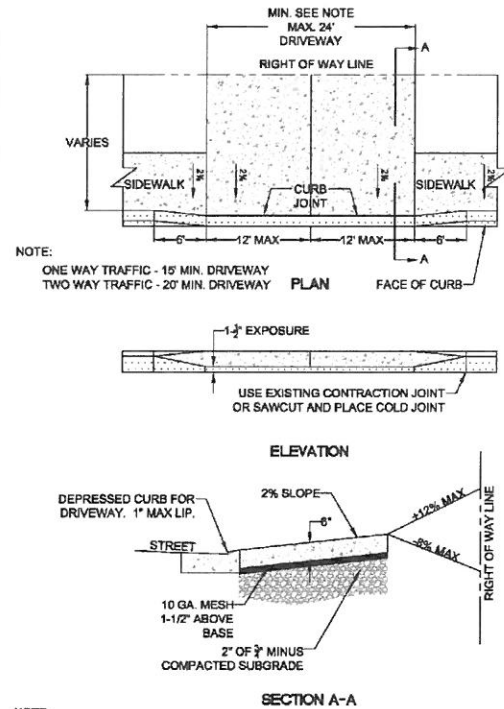


- NOTE:
1. UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER, STREETS SHALL BE PAVED TO FINAL GRADE USING 2 OR MORE LIFTS. FINAL LIFT SHALL BE PLACED ONLY AFTER ACCEPTANCE OF THE FIRST LIFT AT A TIME AS DIRECTED OR APPROVED BY THE CITY ENGINEER
 2. BASE SHALL BE PREPARED 1 FOOT BEHIND CURB
 3. SEE SECTION 5.0030 PAVEMENT DESIGN FOR ALL ROADWAYS CLASSIFIED COLLECTOR OR HIGHER

ALLEY, LOCAL AND NEIGHBORHOOD ROAD STRUCTURAL SECTIONS



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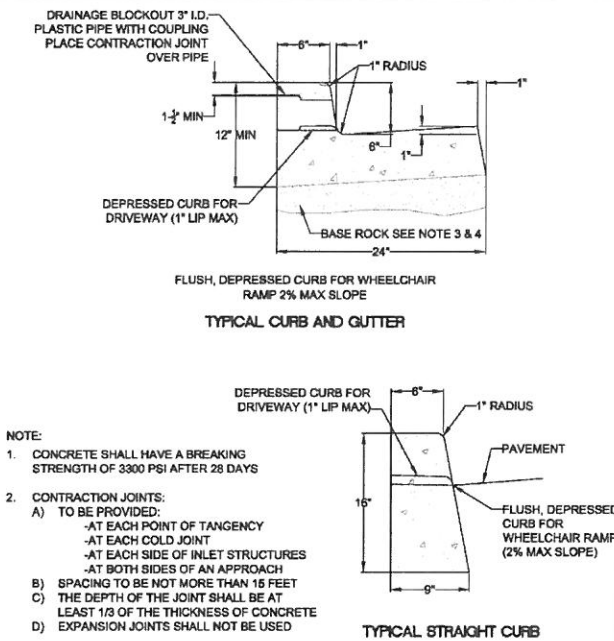


- NOTE:
1. CONCRETE SHALL HAVE A MINIMUM BREAKING STRENGTH OF 4000 PSI AFTER 28 DAYS, 6 SACK MIX
 2. CURB JOINT SHALL BE A TROWELED JOINT WITH A MIN. 1/2" RADIUS ALONG BACK OF CURB
 3. DRIVEWAY SHALL BE A MINIMUM 6" THICK
 4. DRIVEWAY CURB CUT SHALL COMPLY WITH THE CONDITIONS OF 5.0070, "WIDTH AND LOCATION OF CURB CUTS"

COMMERCIAL DRIVEWAY WITH SIDEWALK ADJACENT TO CURB



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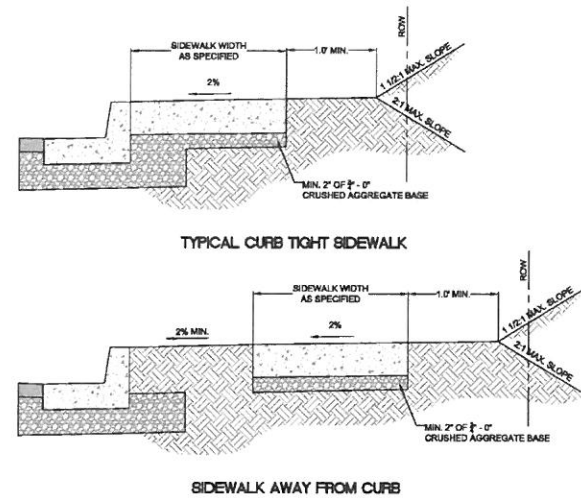


- NOTE:
1. CONCRETE SHALL HAVE A BREAKING STRENGTH OF 3300 PSI AFTER 28 DAYS
 2. CONTRACTION JOINTS: A) TO BE PROVIDED: -AT EACH POINT OF TANGENCY -AT EACH COLD JOINT -AT EACH SIDE OF INLET STRUCTURES -AT BOTH SIDES OF AN APPROACH B) SPACING TO BE NOT MORE THAN 15 FEET C) THE DEPTH OF THE JOINT SHALL BE AT LEAST 1/3 OF THE THICKNESS OF CONCRETE D) EXPANSION JOINTS SHALL NOT BE USED
 3. BASE ROCK - 1-1/2" TO 2", 85% COMPACTION PER AASHTO T-160 ROCK SHALL BE TO SUBGRADE OF THE STREET SECTION OR 4" IN DEPTH, WHICHEVER IS GREATER
 4. FULL DEPTH PREPARED ROCK SECTION SHALL EXTEND 1' HORIZONTALLY BEYOND BOTH SIDES OF CURB AND GUTTER
 5. DRAINAGE BLOCK - 3" DIA. PLASTIC PIPE A) DRAINAGE ACCESS THROUGH EXISTING CURBS SHALL BE DONE BY: -CORE DRILLING -VERTICAL SAWCUT OF CURB 24" EACH SIDE OF DRAIN AND RE-POURED TO FULL DEPTH OF CURB
 6. STAMP TOP OF CURB WITH "W" AT WATER SERVICE CROSSING AND "S" AT SANITARY LATERAL CROSSING

TYPICAL CURBS



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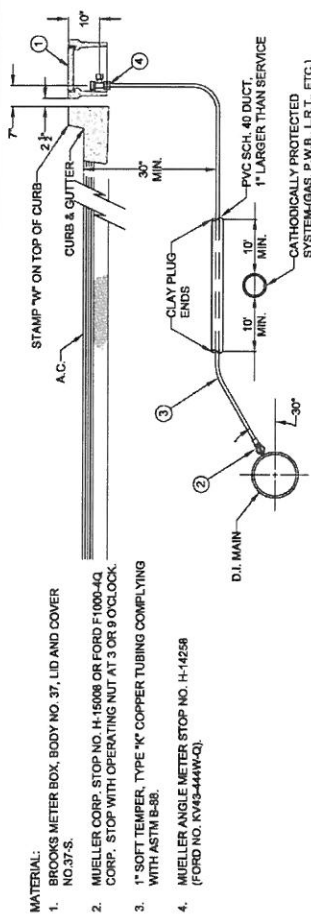


- NOTE:
1. CONCRETE SHALL BE 3300 PSI AT 28 DAYS
 2. PANEL LENGTHS SHALL BE EQUAL TO THE SIDEWALK WIDTH, BUT MAY BE ADJUSTED WITH THE CITY ENGINEER'S APPROVAL
 3. CONTRACTION JOINTS (1/30 OF THE THICKNESS OF CONCRETE) SHALL BE PLACED EVERY THIRD PANEL, WITH A MAX. SPACING OF 15 FEET. JOINTS SHALL ALSO BE PLACED AT THE SIDES OF DRIVEWAY APPROACHES, UTILITY VAULTS, AND WHEELCHAIR RAMPS
 4. A CURING COMPOUND SHALL BE USED. WHITE REFLECTIVE SHEETING SHALL BE USED IN CASE OF RAIN
 5. FOR SIDEWALKS ADJACENT TO THE CURB AND POURED AT THE SAME TIME AS THE CURB, THE JOINT BETWEEN THEM SHALL BE A TROWELED JOINT WITH A MIN. 1/2" RADIUS
 6. THE SIDEWALK SHALL HAVE A MIN. THICKNESS OF 4" IF THE SIDEWALK IS INTENDED AS A PORTION OF THE DRIVEWAY. OTHERWISE, THE SIDEWALK SHALL HAVE A MIN. THICKNESS OF 4"
 7. DRAIN BLOCKOUTS IN THE CURB SHALL BE EXTENDED TO THE BACK OF THE SIDEWALK WITH A 3" DIAMETER PLASTIC PIPE AT A 2% SLOPE. A CONTRACTION JOINT SHALL BE PLACED OVER THE PIPE

CONCRETE SIDEWALK CROSS SECTION

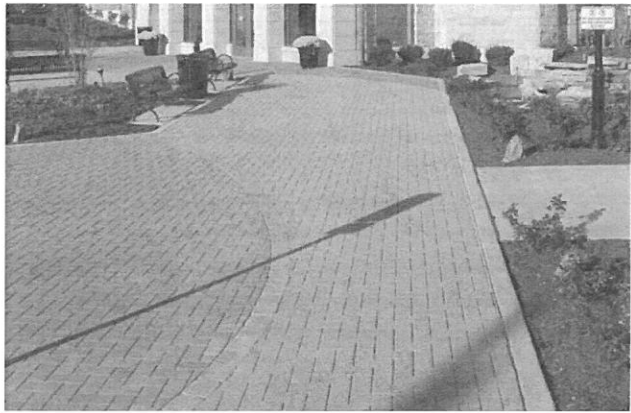


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- NOTE:
1. MACHINE DRILLED AND TAPPED ONLY. NO HAND DRILLING IS ALLOWED.
 2. SUBSTITUTES FOR ANY MATERIALS SHOWN SHALL BE APPROVED BY THE CITY ENGINEER.
 3. ALL PIPE AND STRUCTURE ZONE SHALL BE BACKFILLED USING 3/4" MINUS CRUSHED AGG. AND COMPACTED TO 95% MAX DENSITY AS DETERMINED BY AASHTO T-190.
 4. WHEN AN ACTIVE CATHODIC PROTECTED SYSTEM IS ENCOUNTERED, SCH. 40 PVC SHALL BE INSTALLED AS SHOWN ABOVE WITH CLAY PLUG.
 5. METER BOX SHALL BE CENTERED OVER THE COMPLETED METER ASSEMBLY.
 6. TAPS INTO MAIN TO HAVE 18" SEPARATION ON CENTER MINIMUM.
 7. ANGLE METER STOPS TO BE 18" FROM PROPERTY LINE AND NOT IN DRIVEWAY APPROACH.
 8. METER BOXES IN CURB TIGHT SIDEWALK AND THOSE SUBJECT TO INCIDENTAL AUTO TRAFFIC MUST HAVE METAL LIDS AND BE TRAFFIC RATED.

STANDARD 1" WATER SERVICE

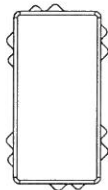


Physical Characteristics

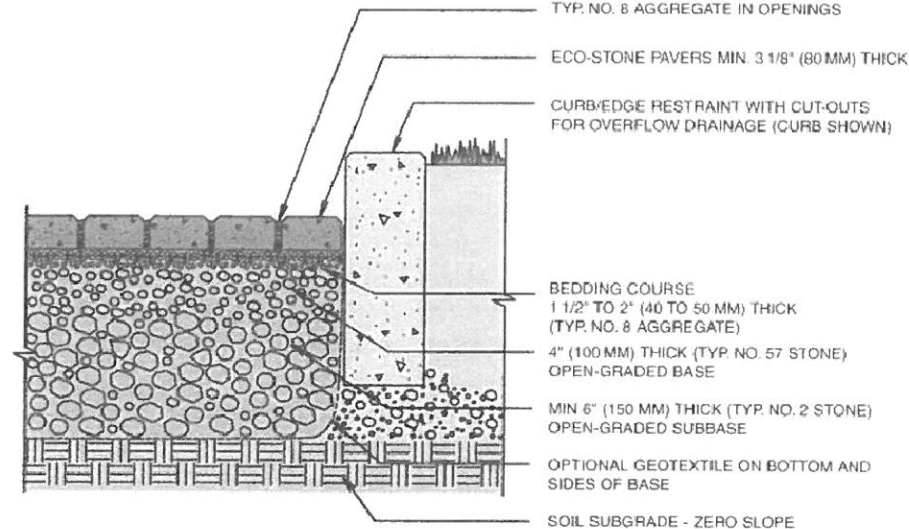
Height/Thickness	3.125"	=	80mm
Width	4.75"	=	120mm
Length	9.5"	=	240mm
Pavers per sq ft		=	3.28

Composition and Manufacture

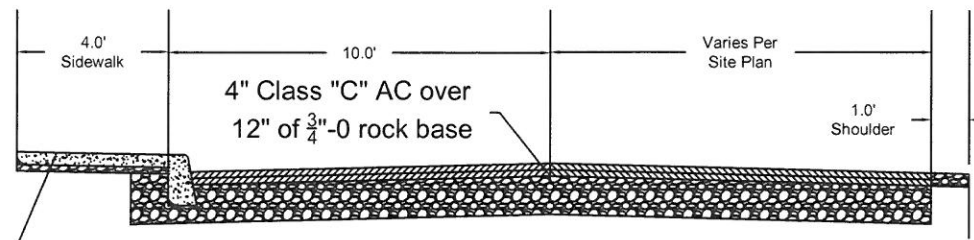
Minimum compressive strength - 8000psi
Maximum water absorption - 5%
Meets or exceeds ASTM C-936 and freeze-thaw testing per section 8 of ASTM C-67.



Note: Eco-Priora may be made in different size rectangles and squares. Check with your local manufacturer for sizes and shapes.



PERMEABLE PAVER CROSS SECTION DETAIL



STREET CROSS SECTION DETAIL



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Site Details

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REVISION

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SITE DETAILS

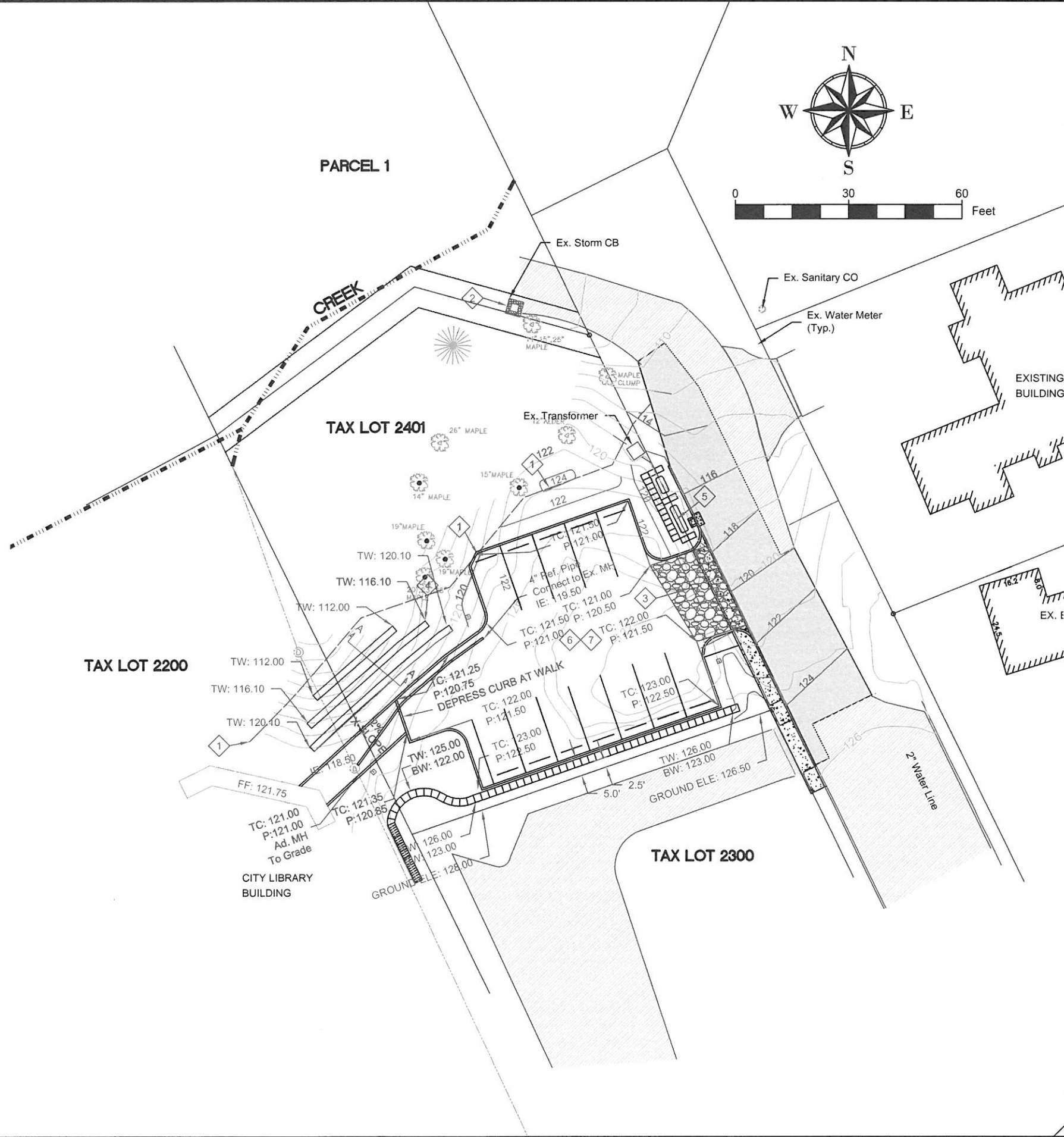
C3.3

GRADING NOTES

- 1 INSTALL SEDIMENTATION FENCE PRIOR TO CONSTRUCTION. SEE DETAIL ON SHEET C4.3.
- 2 INSTALL (4) BIO-BAGS TO PROTECT EXISTING INLET PRIOR TO CONSTRUCTION. SEE DETAIL ON SHEET C4.3.
- 3 INSTALL 20 FOOT DEEP CONSTRUCTION GRAVEL ENTRANCE PRIOR TO CONSTRUCTION. SEE DETAIL ON SHEET C4.3.
- 4 INSTALL KEYSTONE RETAINING WALL. REFER TO MANUFACTURER DETAIL FOR INSTALLATION. ON SHEET C4.3, C4.4, AND C4.5.
- 5 INSTALL RAIN GARDEN PER WL-617 DETAIL ON SHEET C4.3. SEE RAIN GARDEN CROSS SECTION ON SHEET C4.2 NO OVERFLOW PIPE NEEDED.
- 6 STRIP, REMOVE, AND HAUL OFF A MIN. 1' OF EXISTING GROUND SURFACE. REMOVE ALL ORGANIC MATERIAL FROM THE REST OF EXCAVATED DIRT FOR GRADING.
- 7 IF ADDITION BACKFILL NEEDED, CLASS "A" BACKFILL CAN BE USED. COMPACT TO 90% OF AASHTO T-180.

KEY

TC = TOP OF CURB
P = PAVEMENT ELEVATION
TW = TOP OF WALL
BW = BOTTOM OF WALL, EXPOSED FINISHED GRADE



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Library Parking Expansion
Grading and Erosion Control Plan

PROJECT NO.: PW-13-08
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DRAWN BY: KLE
CHECKED BY: ELAIS
DATE: JULY 1, 2013

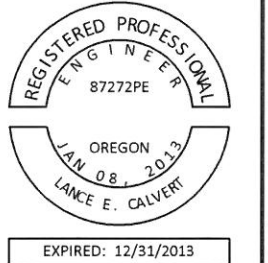
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GRADING AND EROSION CONTROL

C4.1



CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
FAX: (503) 650-9041



CONTRACTOR

NAME: -N/A
ADDRESS: -N/A
PHONE: -N/A
FAX: -N/A

Library Parking Expansion

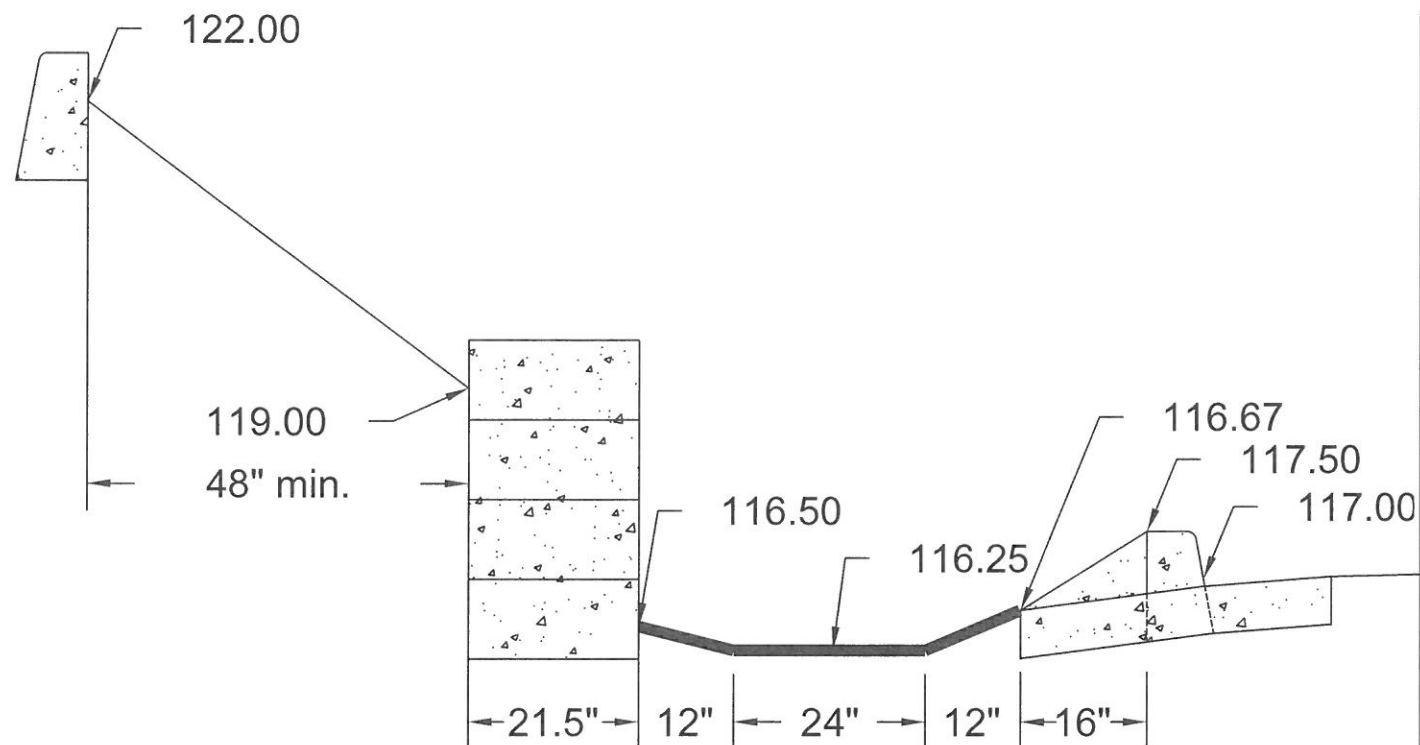
Rain Garden Grading & Cross Section Plan

PROJECT NO.: PW-13-08
DESIGNED BY: KLE
DRAWN BY: KLE
CHECKED BY: LCALVERT
DATE: JULY 1, 2013

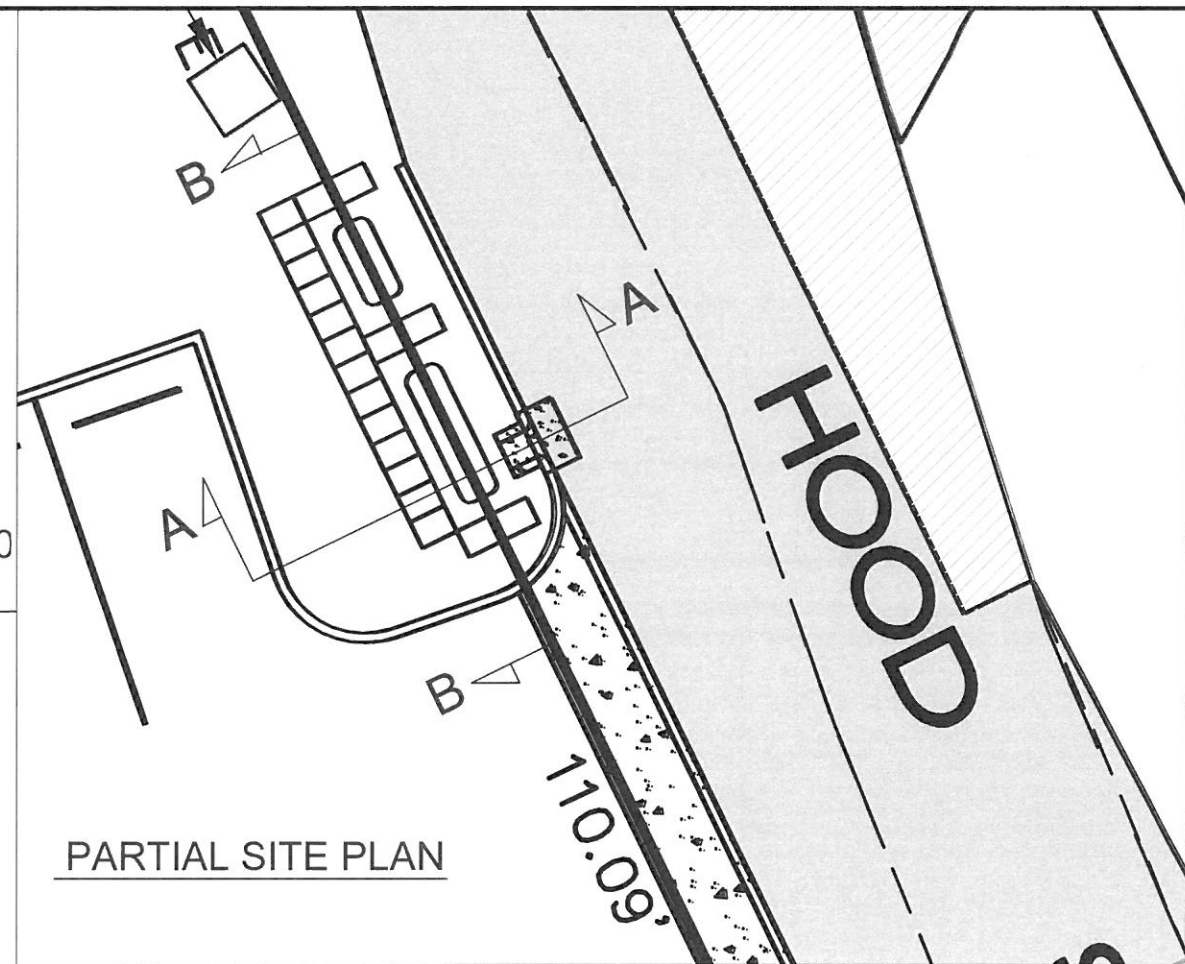
REVISION	
DATE	DESCRIPTION

GRADING AND EROSION CONTROL

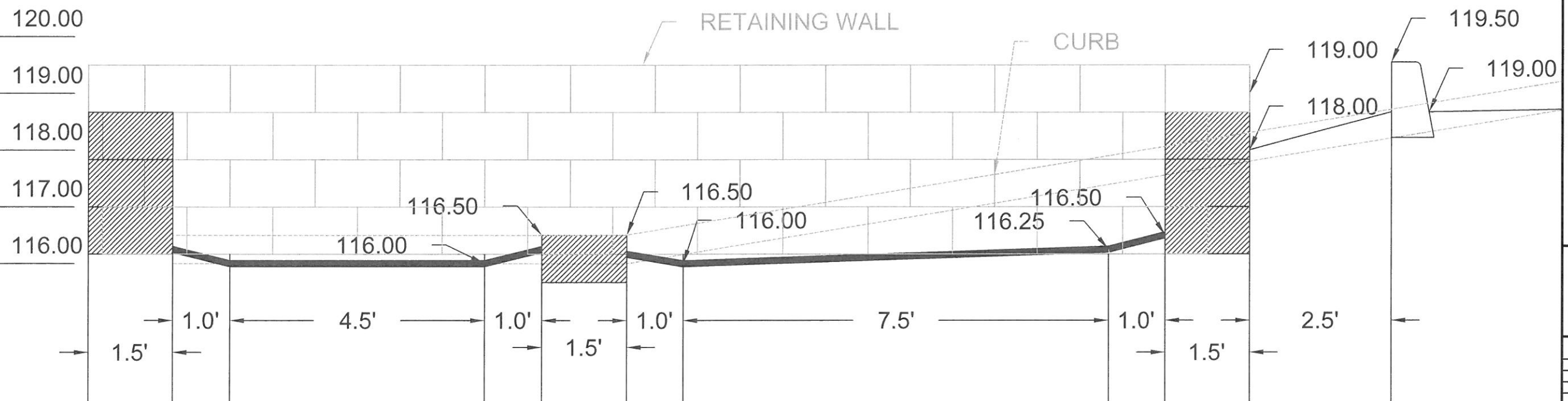
C4.2



CROSS SECTION A-A



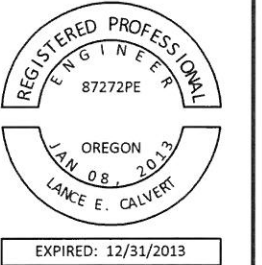
PARTIAL SITE PLAN



CROSS SECTION B-B



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WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
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Library Parking Expansion

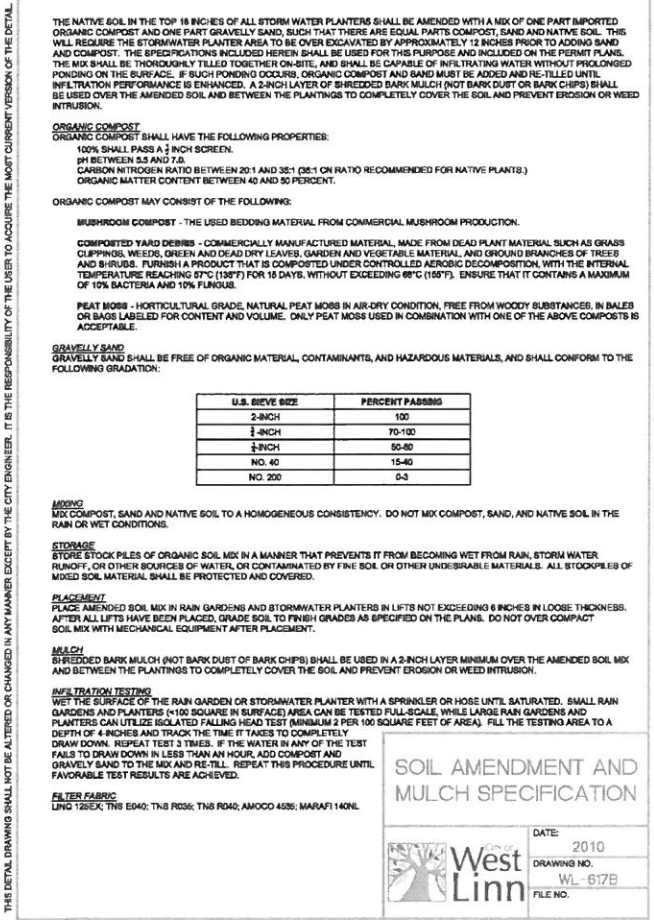
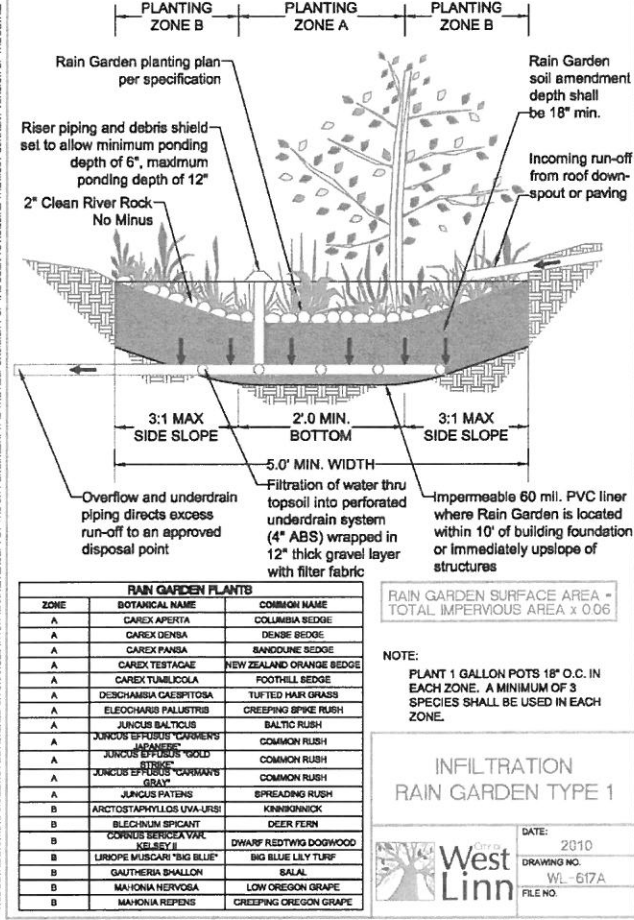
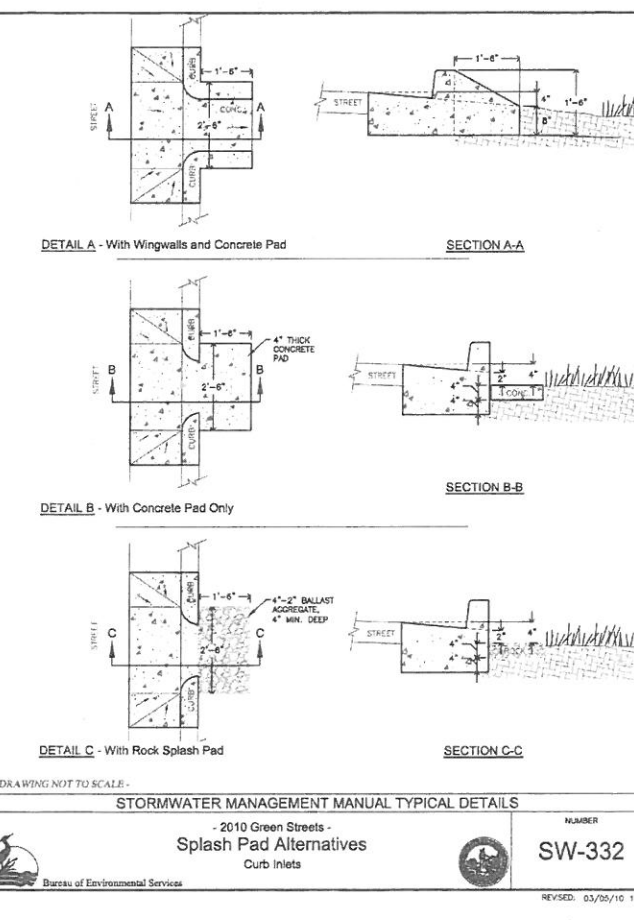
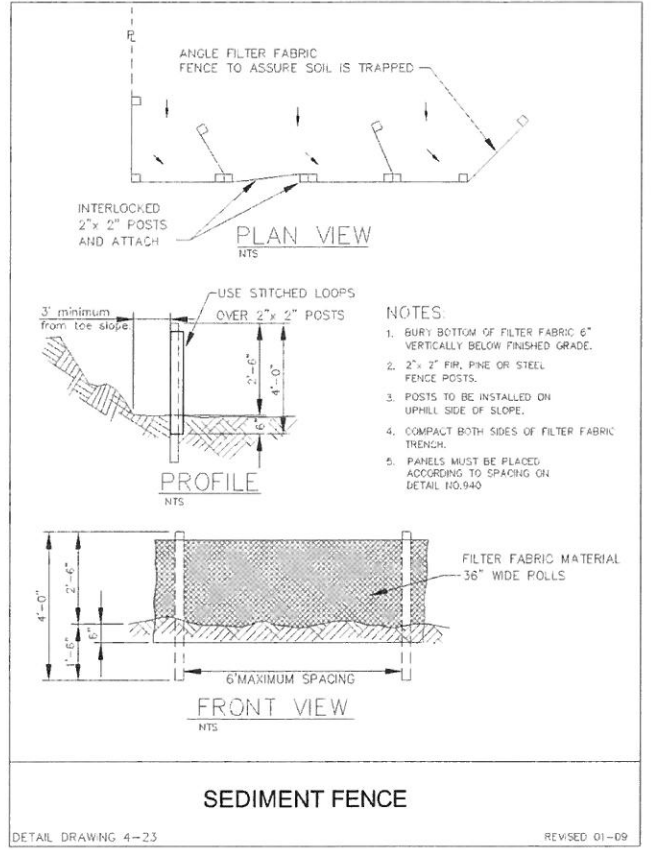
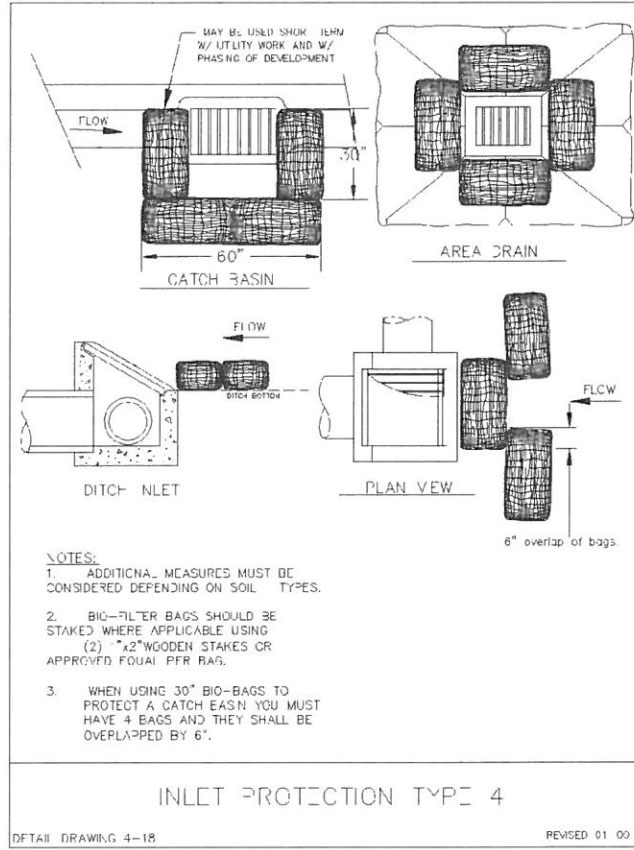
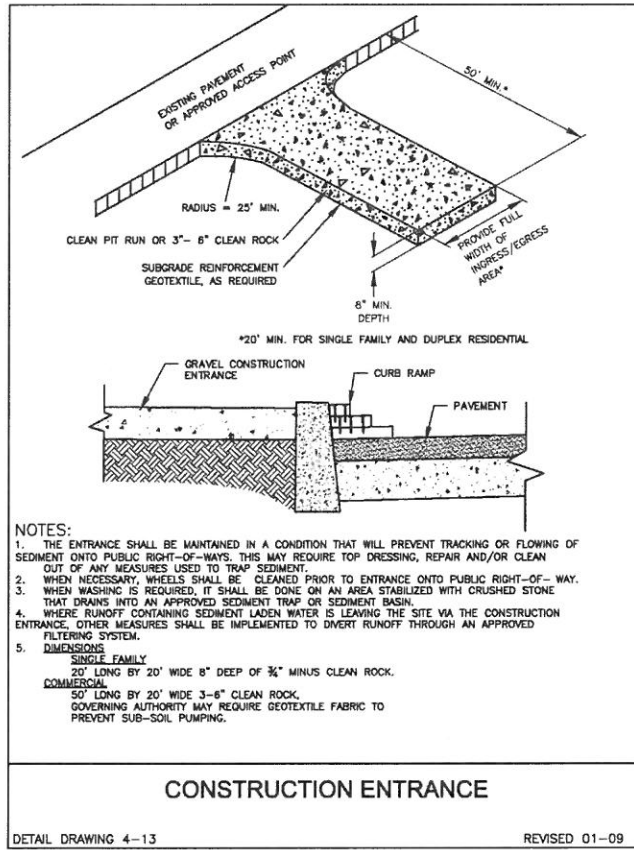
Erosion Control Details

PROJECT NO.: PW-13-08
DESIGNED BY: KLE
DRAWN BY: KLE
CHECKED BY: LCAVERT
DATE: JULY 1, 2013

REVISION	
DATE	DESCRIPTION

EROSION CONTROL DETAILS

C4.3



Library Parking Expansion

Keystone Retaining Wall Installation Detail

PROJECT NO.: PW-13-08
DESIGNED BY: KLE
DRAWN BY: KLE
CHECKED BY: LCAVERT
DATE: JULY 1, 2013

REVISION

DATE DESCRIPTION

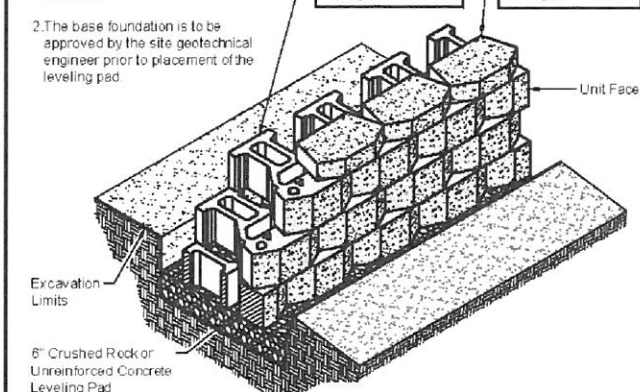
KEYSTONE WALL

C4.4

Base Leveling Pad Notes:

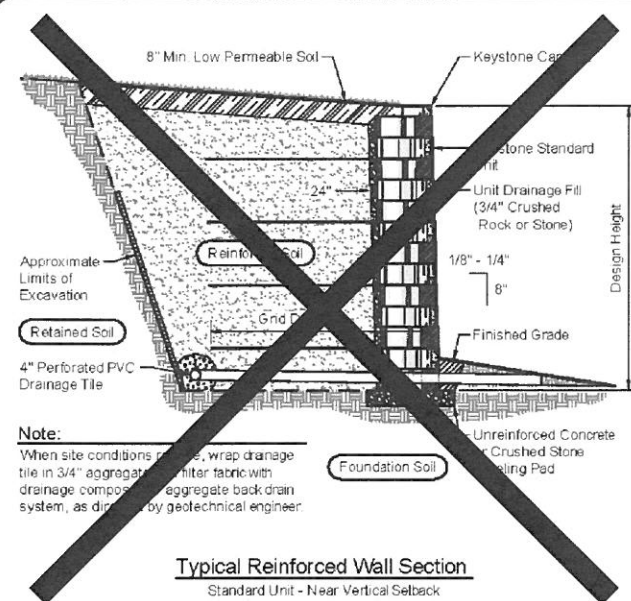
- The leveling pad is to be constructed of crushed stone or 2,000 psi unreinforced concrete.
- The base foundation is to be approved by the site geotechnical engineer prior to placement of the leveling pad.

Standard Unit		Cap Unit	
Width:	18"	Width:	18"
Depth:	21 1/2"	Depth:	10 1/2"
Height:	8"	Height:	4"
Weight:	115 lbs	Weight:	45 lbs



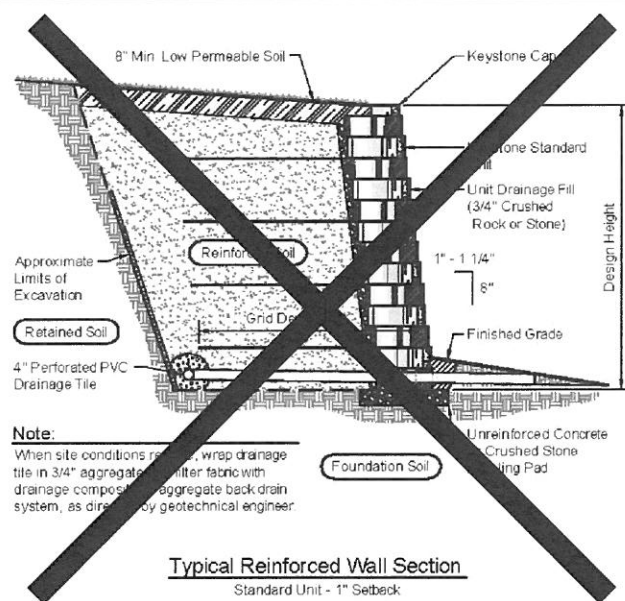
Standard Unit/Base Pad Isometric Section View

*Dimensions & Weight May Vary by Region



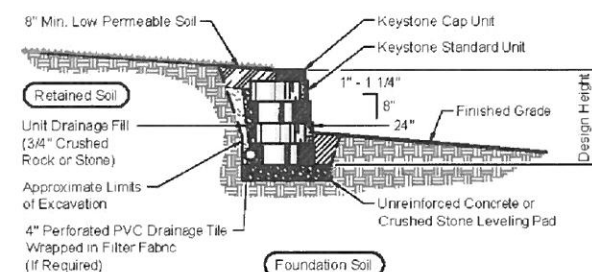
Typical Reinforced Wall Section

Standard Unit - Near Vertical Setback



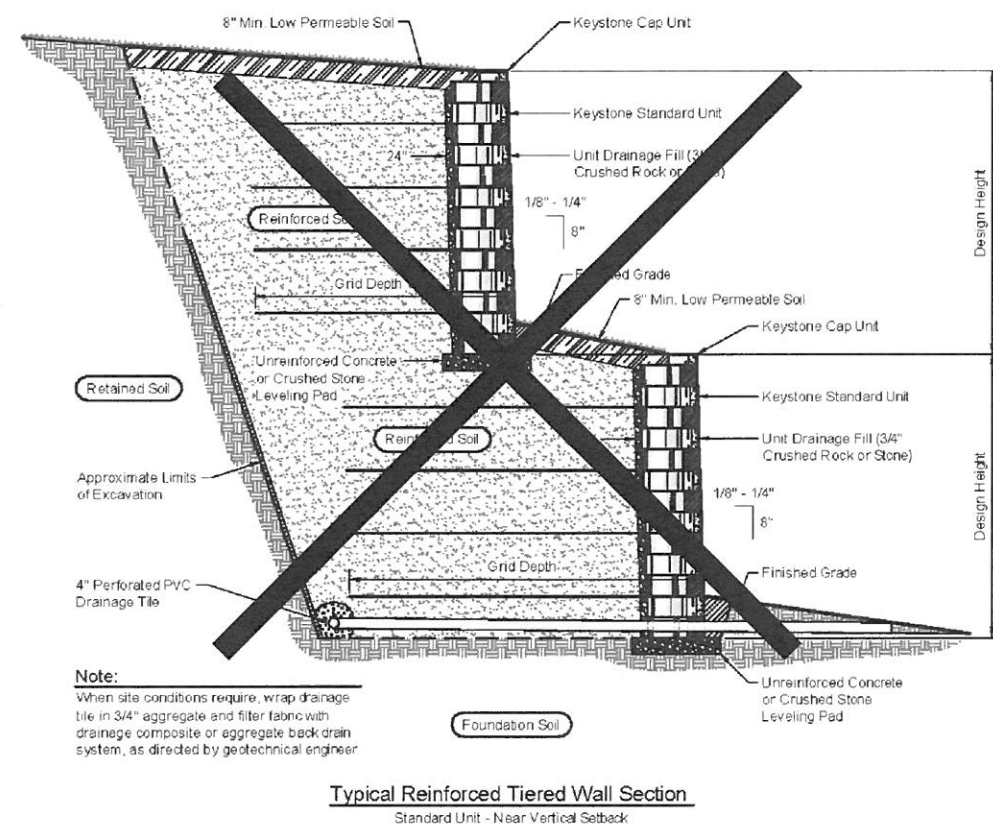
Typical Reinforced Wall Section

Standard Unit - 1" Setback



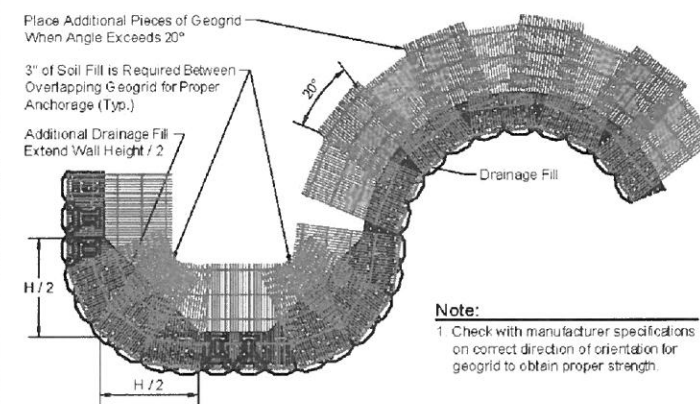
Typical Gravity Wall Section

Standard Unit - 1" Setback



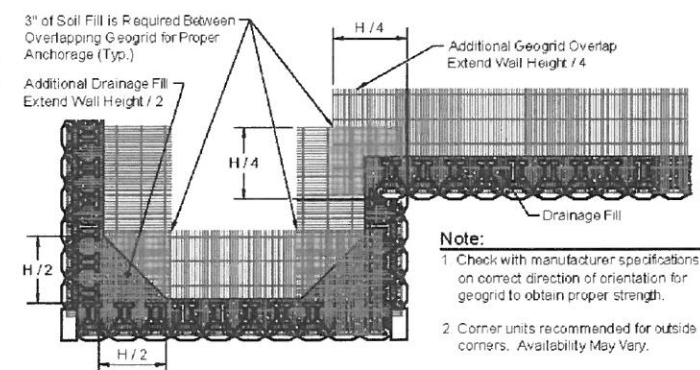
Typical Reinforced Tiered Wall Section

Standard Unit - Near Vertical Setback



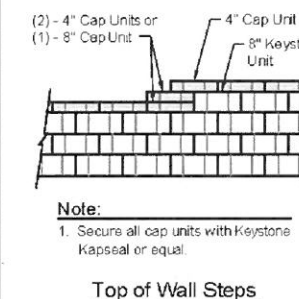
Geogrid Installation on Curves

- Note:**
- Check with manufacturer specifications on correct direction of orientation for geogrid to obtain proper strength.

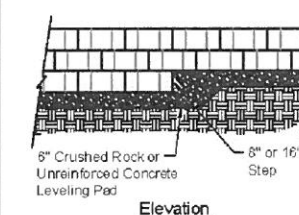


Geogrid Installation at Corners

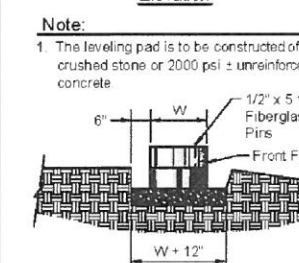
- Note:**
- Check with manufacturer specifications on correct direction of orientation for geogrid to obtain proper strength.
 - Corner units recommended for outside corners. Availability May Vary.



Top of Wall Steps

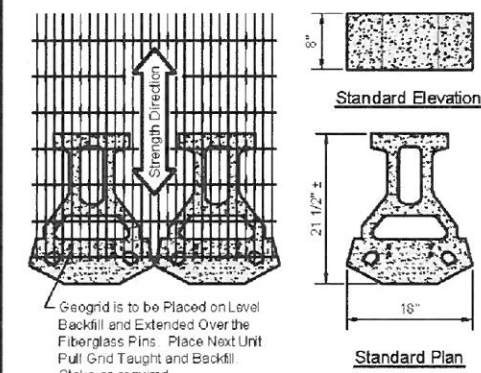


Elevation

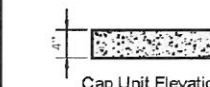


Leveling Pad Detail

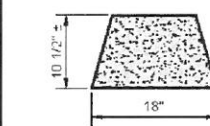
- Note:**
- The leveling pad is to be constructed of crushed stone or 2000 psi unreinforced concrete.



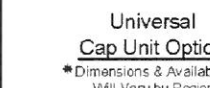
Grid & Pin Connection



Cap Unit Elevation

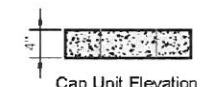


Cap Unit Plan

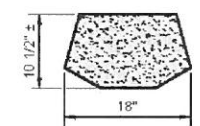


Universal Cap Unit Option

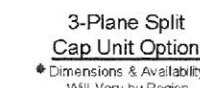
*Dimensions & Availability Will Vary by Region



Cap Unit Elevation



Cap Unit Plan



3-Plane Split Cap Unit Option

*Dimensions & Availability Will Vary by Region

Copyright 2003 Keystone Retaining Wall Systems

Design is for internal stability of the KEYSTONE wall structure only. External stability, including but not limited to foundation and slope stability is the responsibility of the Owner. The design is based on the assumption that the materials within the retained mass, methods of construction, and quality of materials conform to KEYSTONE's specification for this project.

This drawing is being furnished for this specific project only. Any party accepting this document does so in confidence and agrees that it shall not be duplicated in whole or in part, nor disclosed to others without the consent of Keystone Retaining Wall Systems, Inc.

No.	Date	Revision	By

KEYSTONE
A CONTECH COMPANY
4444 W 78th Street
Minneapolis, MN 55435
952-897-1040

Designed By: RKM	Title: Standard Unit 21 - Tri Plane Face Details	Date:
Checked By: CDM	Project: Keystone Retaining Wall Systems Typical Wall Details	Project No:
Scale: No Scale		Drawing No:



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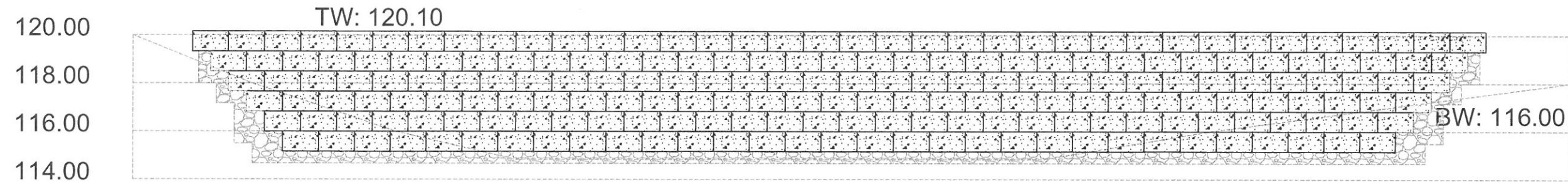
Library Parking Expansion

KEYSTONE WALL PROFILE

PROJECT NO.:
DESIGNED BY: KLE
DRAWN BY: KLE
CHECKED BY: LCALVERT
DATE:

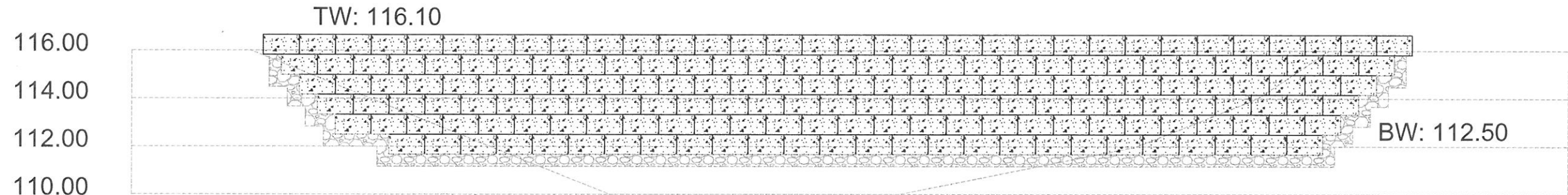
REVISION	
DATE	DESCRIPTION

WALL PROFILE
C4.5



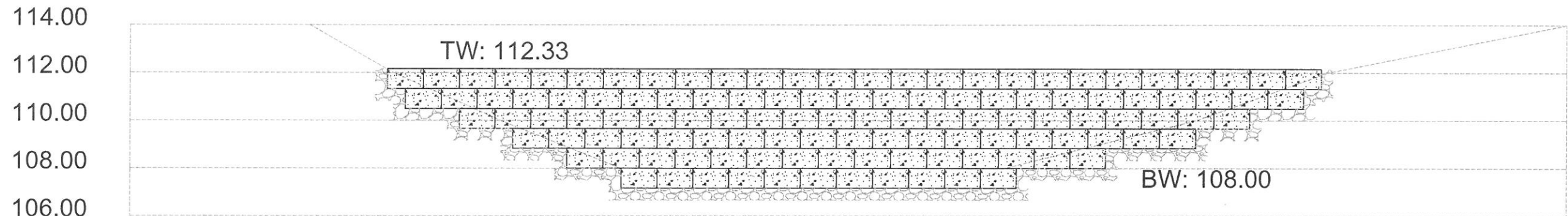
6" Crushed Rock Leveling Pad Per Keystone Specs.

THIRD TIER KEYSTONE WALL PROFILE



6" Crushed Rock Leveling Pad Per Keystone Specs.

SECOND TIER KEYSTONE WALL PROFILE



6" Crushed Rock Leveling Pad Per Keystone Specs.

FIRST TIER KEYSTONE WALL PROFILE



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PHONE: (503) 567-0331
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EXPIRED: 12/31/2013

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NAME: -N/A
ADDRESS: -N/A
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Library Parking Expansion

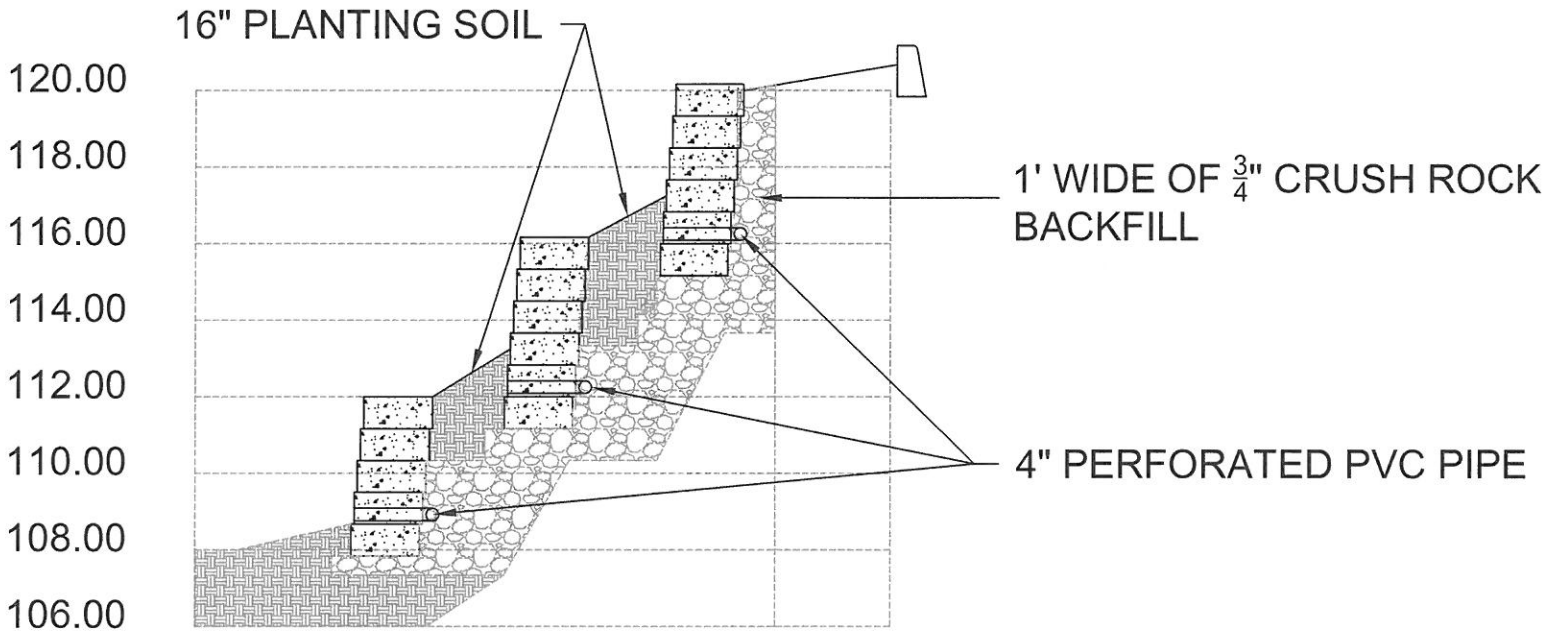
KEYSTONE WALL CROSS SECTION A-A

PROJECT NO.:
DESIGNED BY: KLE
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CHECKED BY: LCALVERT
DATE:

REVISION	
DATE	DESCRIPTION

KEYSTONE WALL CROSS SECTION
A-A

C4.6



CROSS SECTION A-A

CONSTRUCTION NOTES

- 1
- INSTALL LIGHT POLE AND FIXTURE (LP-1)
SEE DETAIL TABLE FOR INFORMATION.

- 2
- REPLACE EXISTING PARKING LOT LIGHT BULB
(6) WITH LED LIGHT BULB.

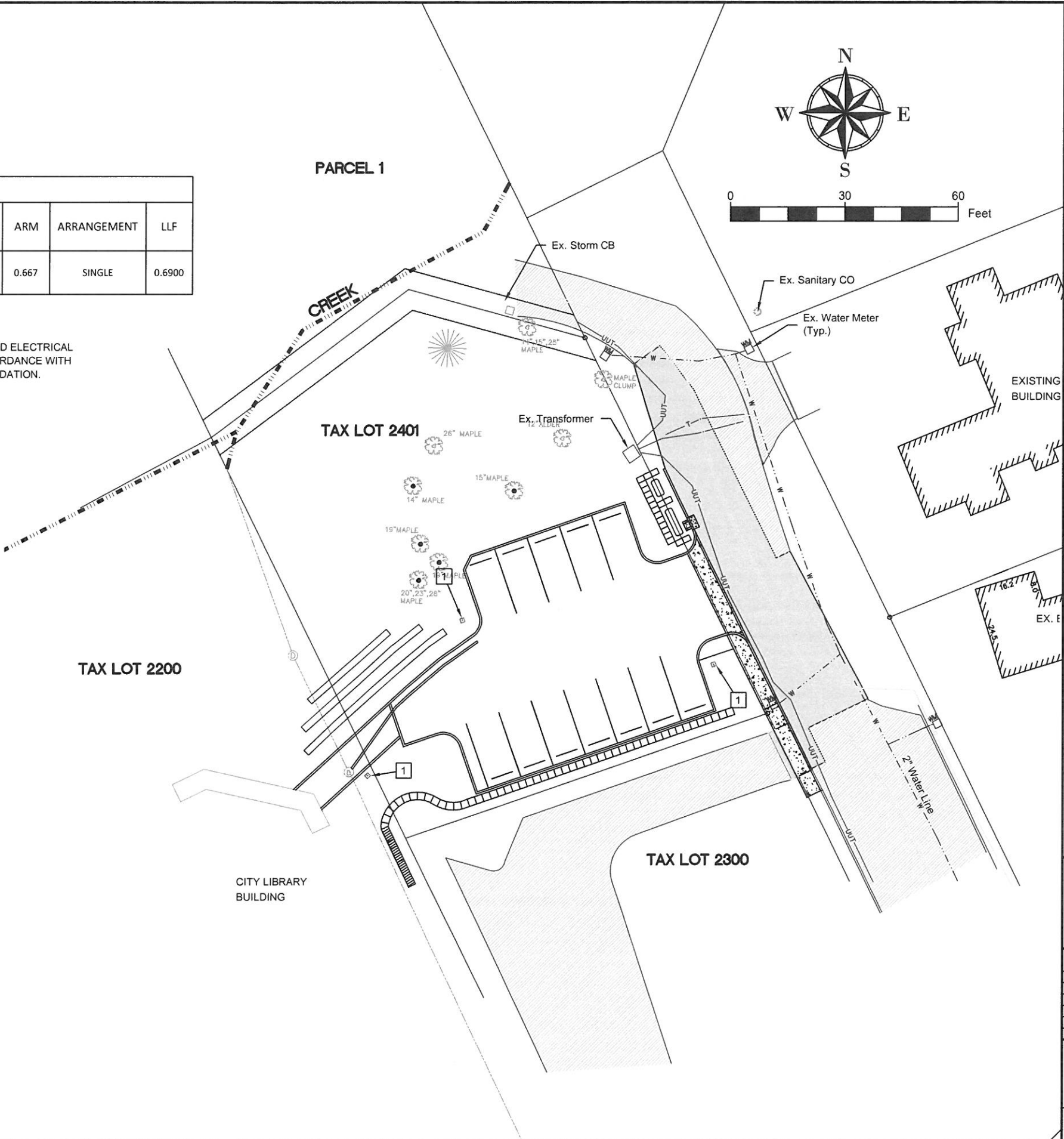
LUMINAIRE SCHEDULE								
QTY	LABEL	DESCRIPTION	MH	WATTS	INITIAL LUMENS	ARM	ARRANGEMENT	LLF
3	LP-1	MH, GARDCO 'FORM 10 ROUND LED' LUMINAIRE MOUNTED ON A METAL POLE WITH AN INTERNAL HOUSE INSIDE SHIELD	17	150	12500	0.667	SINGLE	0.6900

NOTE:

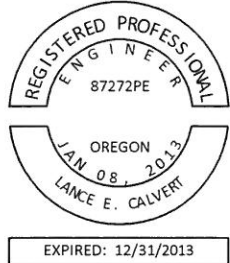
CONTRACTOR TO INSTALL FIXTURES, ALL ASSOCIATED ELECTRICAL WIRING, AND CONNECT TO EXISTING LIBRARY IN ACCORDANCE WITH ELECTRICAL CODE AND MANUFACTURERS RECOMMENDATION.



ROUND 10 FORM LIGHT FIXTURE



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Library Parking Expansion

Lighting Plan

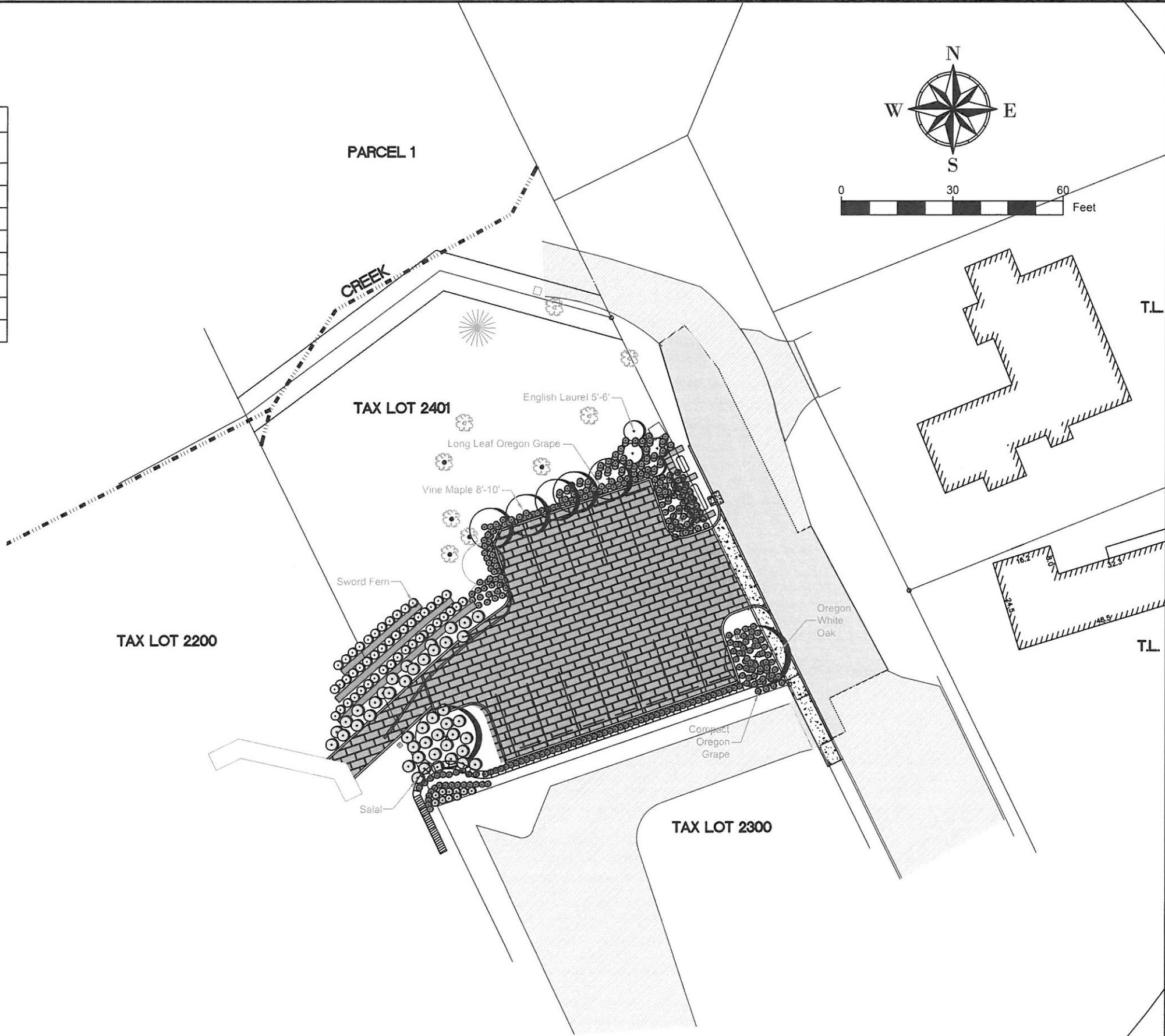
PROJECT NO.: PW-13-08
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CHECKED BY: LCAVERT
DATE: JULY 1, 2013


REVISION
DATE DESCRIPTION

LIGHTING

C5.1

PLANTING INDEX		
SPECIES	SIZE	QUANTITY
Oregon White Oak	2" Caliper	2
Compacted Oregon Grape	1 Gallon	58
Long Leaf Oregon Grape	1 Gallon	137
Vine Maple	8'-10'	6
Sword Fern	1 Gallon	18
Salal	1 Gallon	66
Tall Oregon Grape	1 Gallon	3
English Laurel	5'-6'	6





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Library Parking Expansion

Landscape Plan

PROJECT NO.: PW-13-08
 DESIGNED BY: KLE
 DRAWN BY: KLE
 CHECKED BY: LCALVERT
 DATE: JULY 1, 2013

REVISION

DATE	DESCRIPTION

LANDSCAPE

C6.1